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**HIGH-FIDELITY AUTOMATIC
STEREO TURNTABLE**

PL-A45D

OPERATING INSTRUCTIONS

**KUT
KCT**



Walnut grained vinyl and gray colored vinyl
are used in the construction of this cabinet.

**WARNING: TO PREVENT FIRE OR SHOCK HAZARD,
DO NOT EXPOSE THIS APPLIANCE TO RAIN OR
MOISTURE.**

PIONEER

Thank you for the confidence you have shown us in purchasing this Pioneer Fully Automatic Turntable PL-A45D. We are certain that this professional quality hi-fi component will give you many years of faultless service. To make full use of its features and possibilities, please read this manual carefully and follow the directions indicated.

Before using this turntable, you should lubricate the oil holes while reading "LUBRICATION."
Because this unit may fall short of oil during the shipments.

FEATURES

PROFESSIONAL PERFORMANCE YET EFFORTLESS OPERATION

This Pioneer model PL-A45D combines studio-quality performance with the operational ease of a fully automatic. Simply flick the function lever to START once, and the tonearm will be automatically moved over and lowered onto the record and, at the end of the disc, will return automatically to its rest. One-touch CUT and REPEAT features let you interrupt and repeat any record freely.

SYNCHRONOUS MOTOR AND BELT DRIVE

The turntable platter is driven by a synchronous 4-pole motor of excellent stability independent from power voltage fluctuations.
The drive belt is precision-finished on both sides, a feature that helps reduce wow and flutter to an absolute minimum. (The tonearm is moved by a separate, geared motor.)

TOP-QUALITY TONEARM AND EASY-TO-USE LATERAL BALANCE

Held up by a newly designed "support" system, the S-shaped tonearm has tracking ability high enough to trace all record grooves accurately at all times, allowing any stereo phono cartridge to be mounted.
In addition, lateral balance adjustment is quite simple.

ANTI-SKATING DEVICE

Model PL-A45D features an effective countermeasure against skating (excess pressure of the stylus against the inner wall of the record groove)
The skating force canceler keeps the stylus correctly balanced in the groove and assures perfect tracking.

DIRECTLY READABLE TRACKING FORCE ADJUSTMENT

The tracking force is adjustable over a wide range so that practically any cartridge (with standard EIA plug) can be accommodated. The balance weight is equipped with a gauge for easy, direct reading of the tracking force.

"FREE HINGE" DUST COVER

The semitransparent dust cover is held by spring-loaded hinges and can be arrested in any desired position. If desired, it can be removed altogether.

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INSTALLATION

Install the PL-A45D with the following points in mind.

- The place must be well-ventilated and free from humidity and dust.
- The unit should not be exposed to direct sunlight.
- The unit should not be placed near any source of heat.
- * The unit should be placed as far from the speaker systems as possible.

ASSEMBLY

To prevent possible damage in transit, precision parts and the turntable platter are packaged separately from the wooden base in the same packing case. After unpacking all parts carefully, assemble them into one unit by referring to the following steps with the help of each illustration.

CLAMP SCREWS

Remove the 4 clamp screws as shown in Fig. 1 with the furnished screwdriver. After removing the screw 4, fit the supplied rubber bush into the hole.

TURNTABLE PLATTER

The turntable platter is packed separately. Take it out and put it on the center shaft. Place the rubber mat on the platter after the drive belt has been set on the motor pulley (Fig. 2).

DRIVE BELT

Set the **SPEED SELECTOR** lever to 33 RPM position. Put the drive belt through the belt guide by pulling the ribbon attached to the belt. Then set the belt on the smaller portion (the upper portion) of the motor pulley, using the ribbon. Then remove the ribbon (Fig. 3).

In this case, be careful not to twist the drive belt.

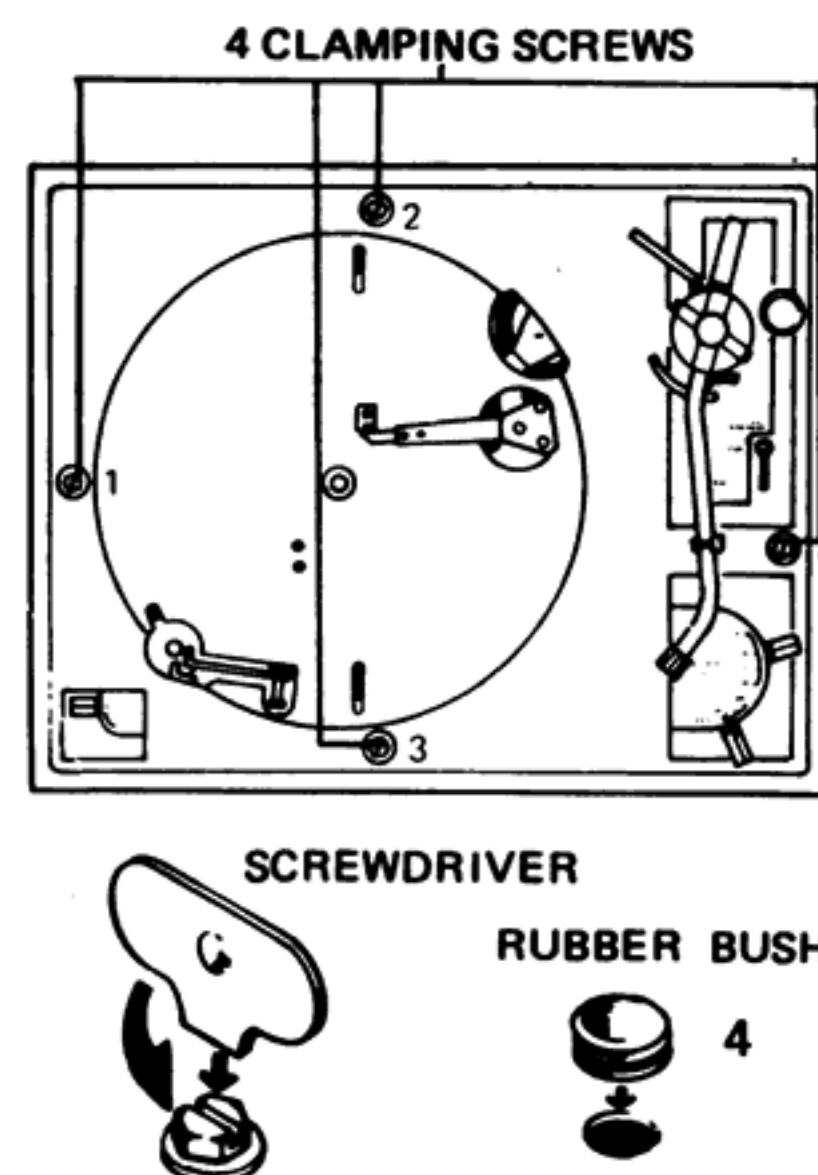


Fig. 1



Fig. 2

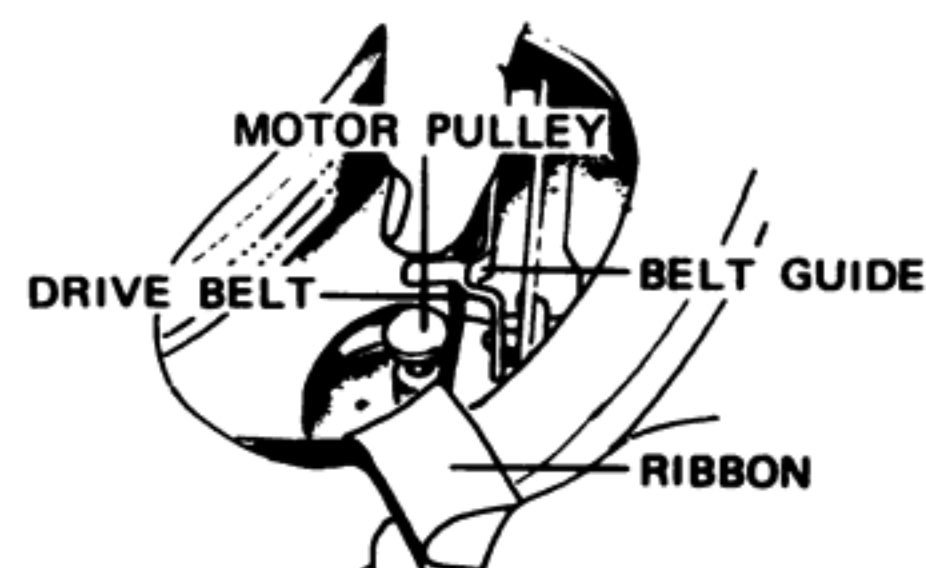


Fig. 3

- How to attach the dust cover showed in Fig. 18 of page 11. After the adjustment of tonearm is over, attach the dust cover. Because it is convenient to adjust for the adjustments of tonearm.

TONEARM ASSEMBLY

MAIN COUNTERWEIGHT

Mount the main counterweight on the rear of the tonearm and push it inward as far as it will go. Then, give it two or three turns clockwise (Fig. 4).

ATTACHING THE CARTRIDGE

The contacts in the tonearm and head shell conform to the international standard so that any standardized phono cartridge can be installed. Mount the cartridge as shown in Fig. 5 : be sure to make the correct lead wire connections, observing the markings or color code.

NOTE:

This tonearm is compatible with cartridges weighing from 4 ~ 10 grams.

OVERHANG ADJUSTMENT

Before the fastening the cartridge tightly to the head shell, adjust its stylus overhang with the help of the supplied overhang gauge.

Slide the cartridge back and forth in the shell until the stylus tip is at the marker on the overhang gauge. Then, tighten the cartridge mounting screws firmly.

HEAD SHELL

Insert the head shell into the tonearm sleeve and lock it in place by turning the locking collar (Fig. 7).

Then, untie the ribbon fastening the tonearm to the arm rest.

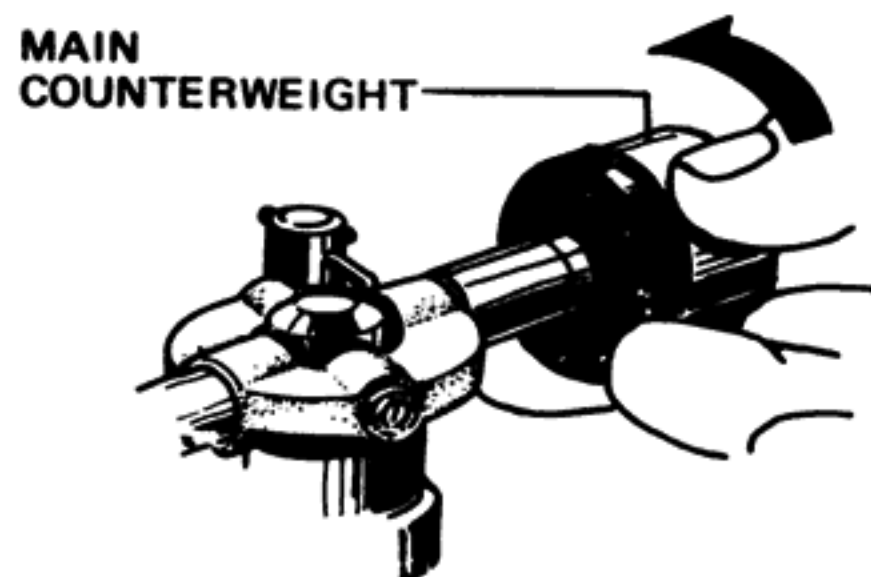


Fig. 4

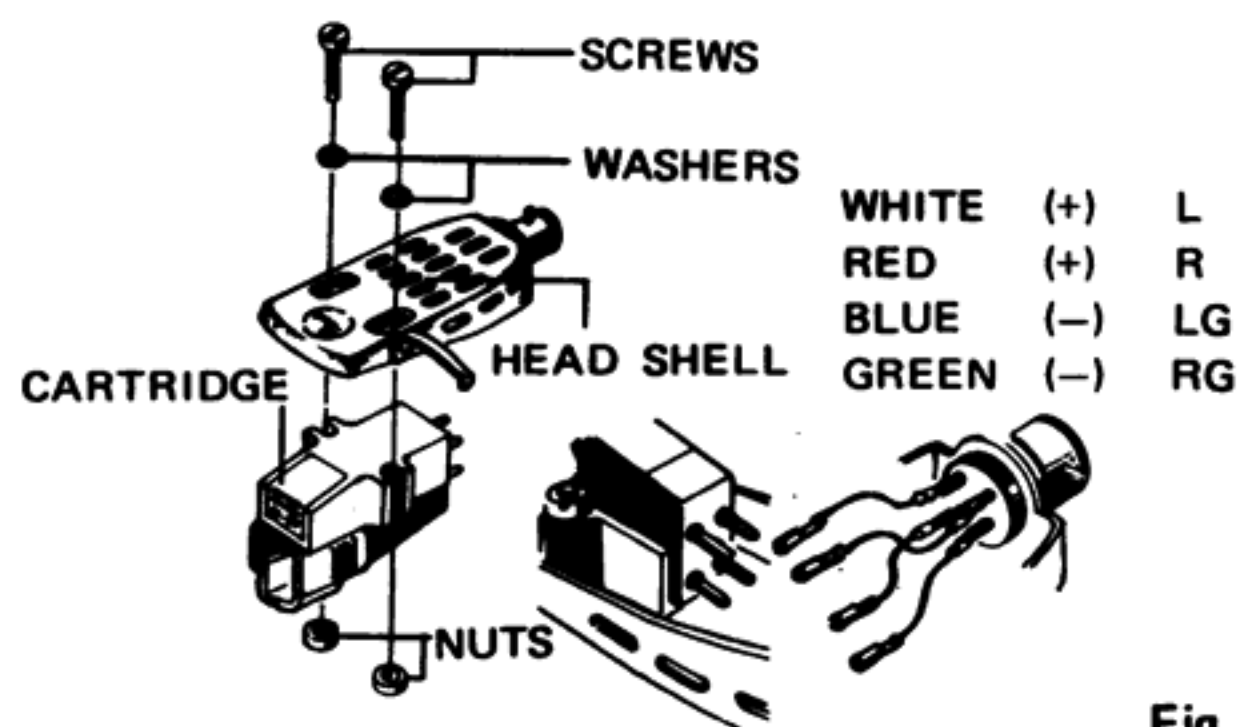


Fig. 5

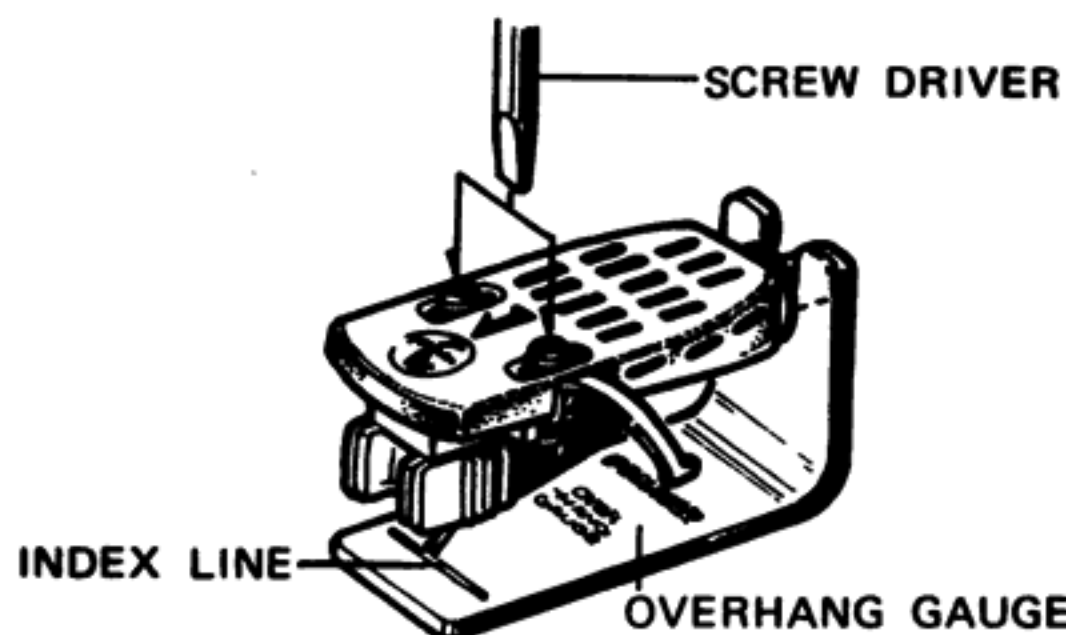


Fig. 6

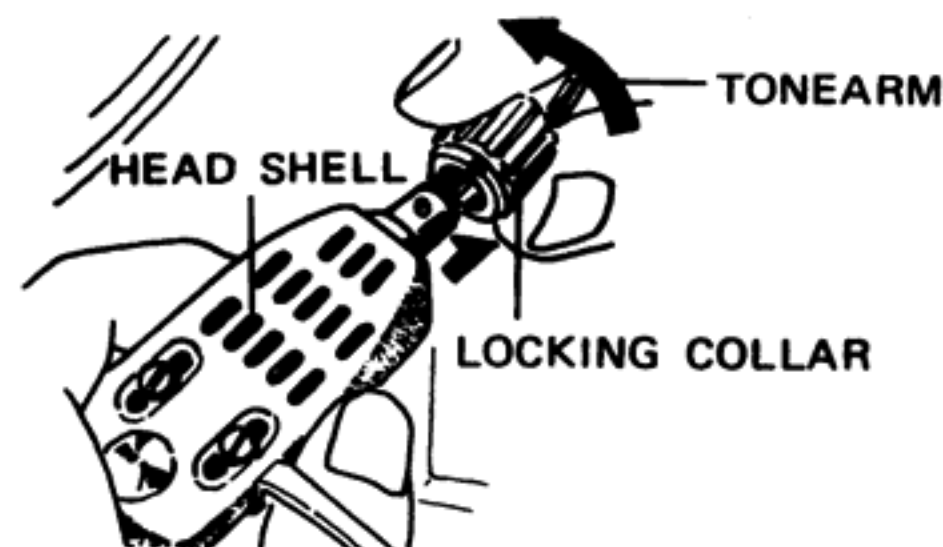
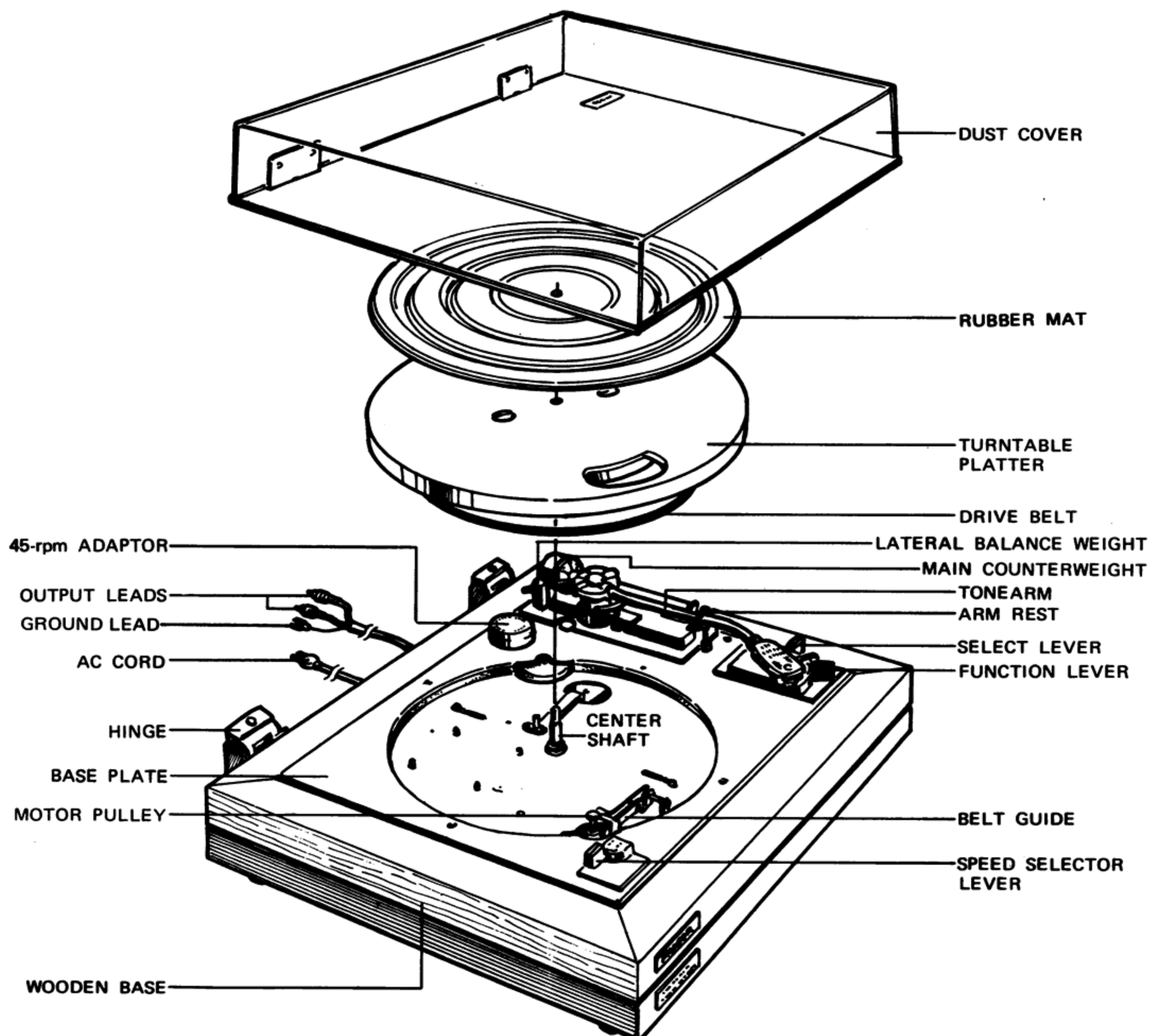


Fig. 7

PARTS IDENTIFICATIONS



ACCESSORY PARTS

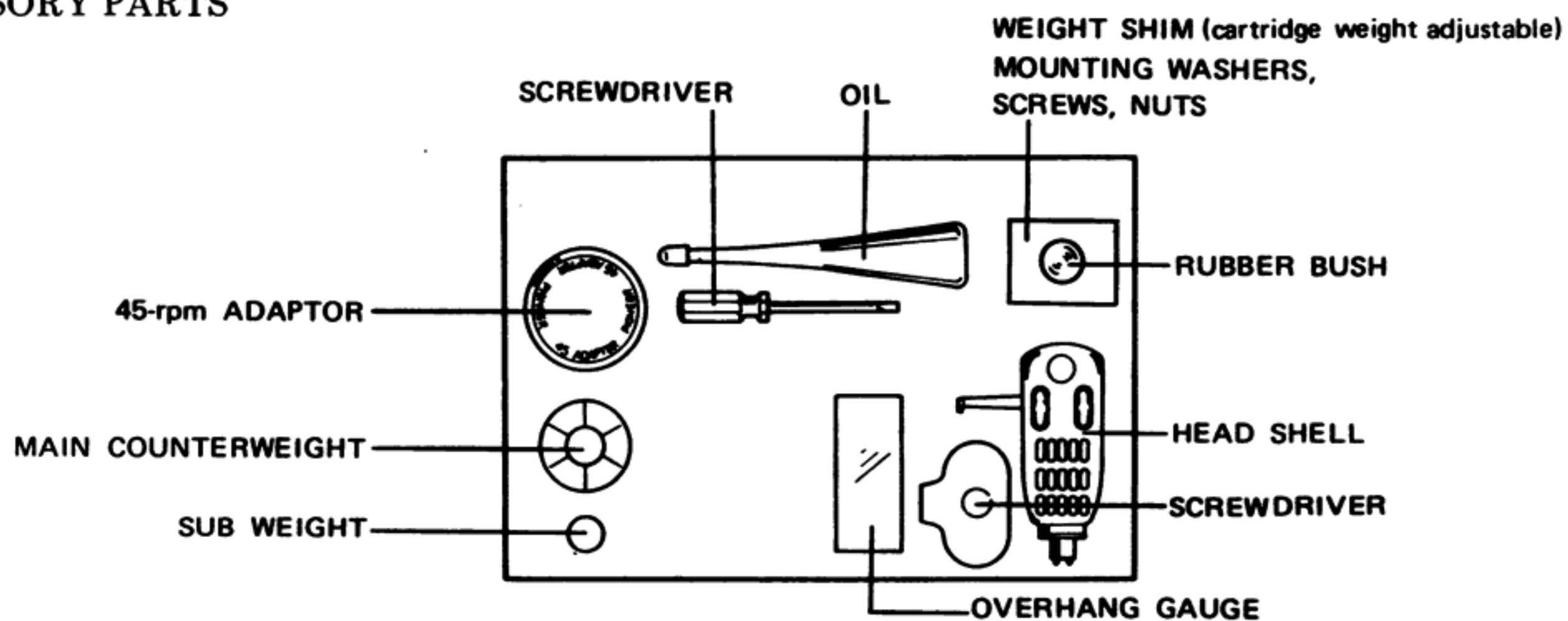


Fig. 8

CONNECTION TO STEREO AMPLIFIER OR RECEIVER

The input jacks on the amplifier, to which the connection cords of your PL-A45D must be connected, will be chosen according to the type of cartridge used.

To choose the proper jacks, refer to an explanation of the cartridge, then connect the connection cord of PL-A45D as follows.

- The connection cord of PL-A45D has three leads at its end: the first is marked "L" (left channel), the second, "R" (right channel), and the third is colored black. Connect the "L" and "R" leads to the respective PHONO MAG input jacks of your stereo amplifier (Fig. 9).
- The black lead is for ground connection and has a split lug on its end. Connect the lug to the ground terminal on your amplifier (Fig. 9).

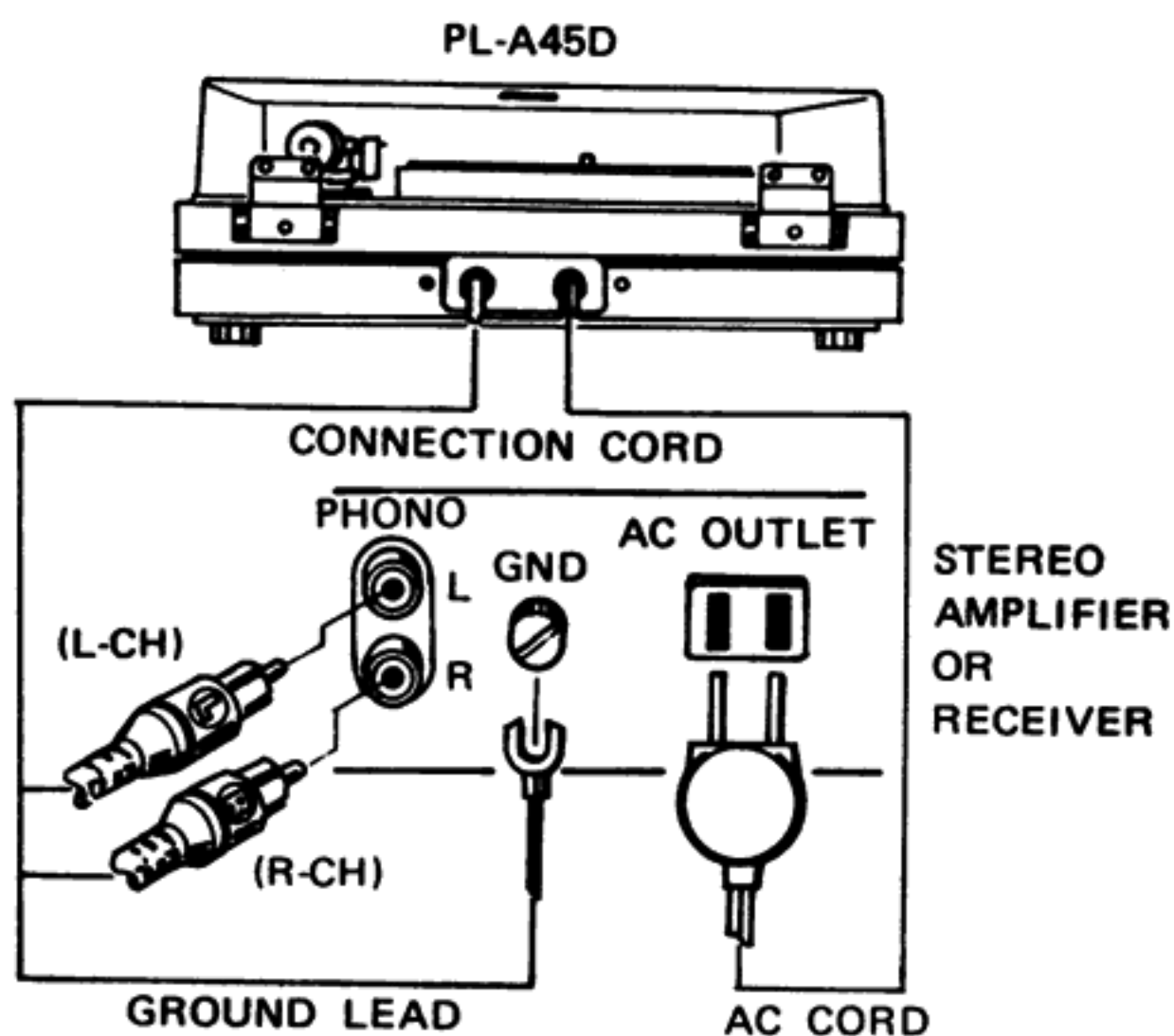


Fig. 9

TONEARM ADJUSTMENT

LATERAL BALANCE ADJUSTMENT

Adjust the lateral balance weight so that the left end of weight is 10 ~ 15 mm from the end of its shaft (Fig. 10).

Then retighten its screw.

After this adjustment once made, no readjustment is needed even if the supplied phono cartridge is replaced with your option. Always keep the turntable horizontal.

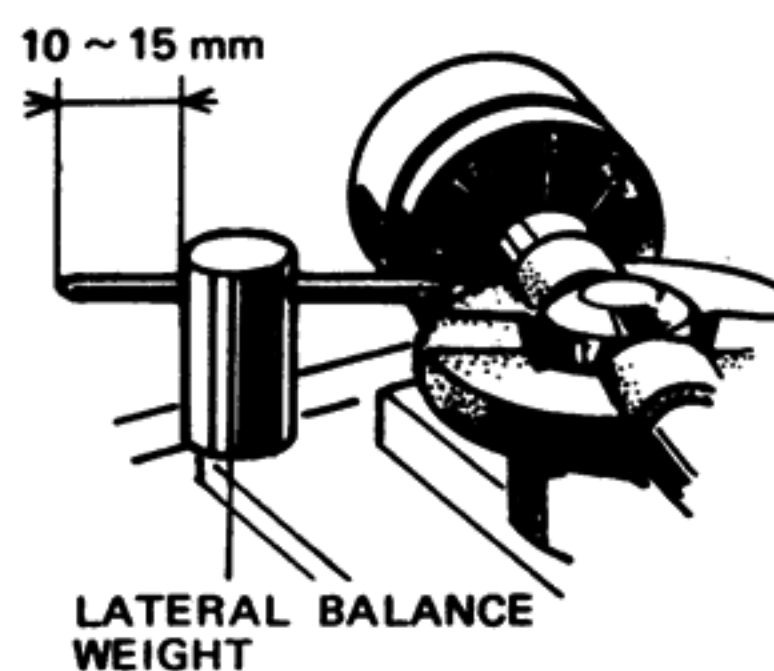


Fig. 10

HORIZONTAL BALANCE

1. Set the skating force canceler knob to "0".
2. Set the SELECT lever to MANUAL.
3. The turntable starts rotating with the FUNCTION lever set to START/CUT.
4. Plug out the AC cord from the AC outlet, then the arm elevator will descend and the turntable will stop.
5. Free the tonearm clamper, then remove the tonearm from the arm rest.
6. Move the main counterweight slightly to make horizontal balance. Then, make sure to keep the balance horizontal without tilting in either direction.
7. After confirming perfect adjustment in step 6, with care taken not to move the main counterweight, turn the tracking force dial ring until the "0" reading aligns with the black index line engraved on the tonearm (Fig. 11).

In this case, be sure to cover the stylus with the stylus guard and clamp the tonearm onto the arm rest.

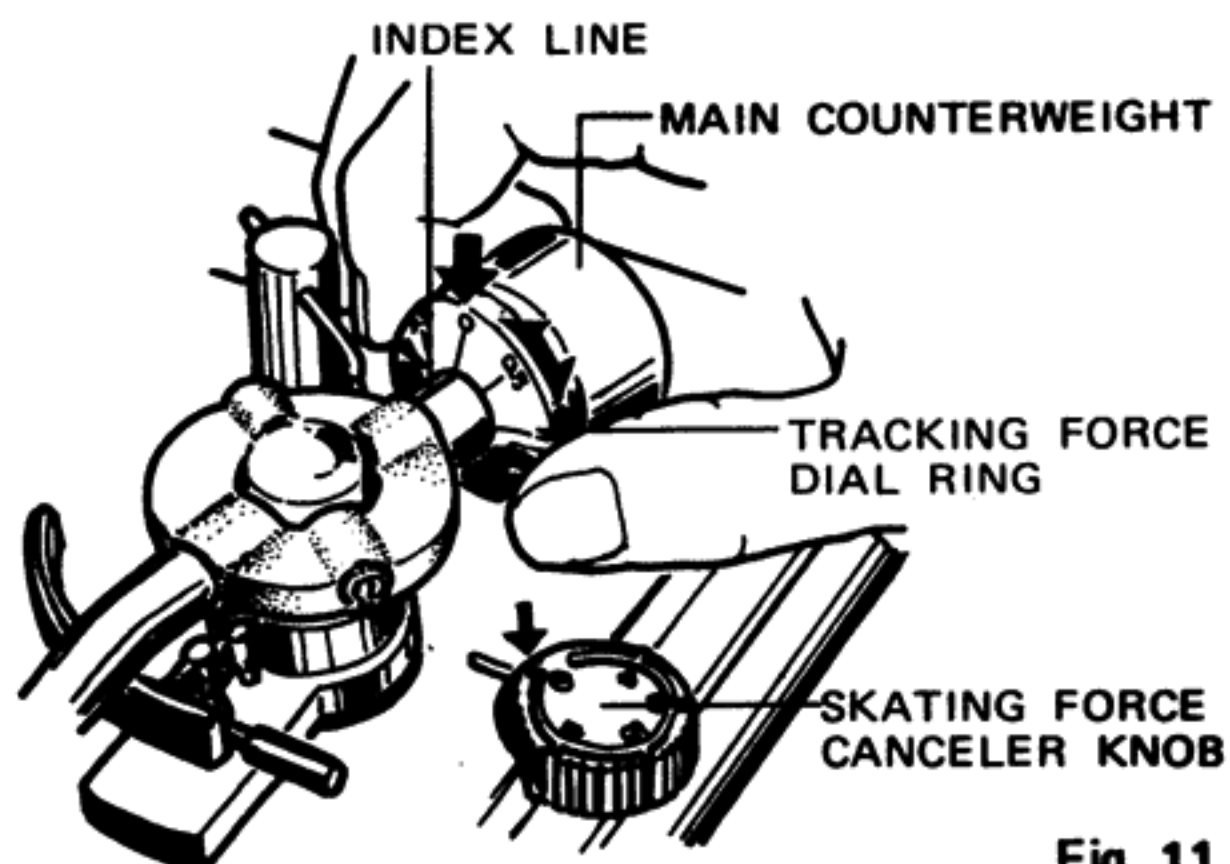


Fig. 11

IN CASE OF USING SUB WEIGHT

If your optional phono cartridge is too heavy to keep balance horizontal, add the supplied sub weight to the rear end of the tonearm, then adjust horizontal balance (Fig. 12).

TRACKING FORCE ADJUSTMENT

After the horizontal balance adjustment (the tracking force: aligned with the "0" reading), turn the main counterweight together with tracking force dial ring (which is direct reading up to 4 grams in 0.5 increments).

If the employed cartridge weight exceeds 7 grams, install the subweight to the tonearm and adjust the balance.

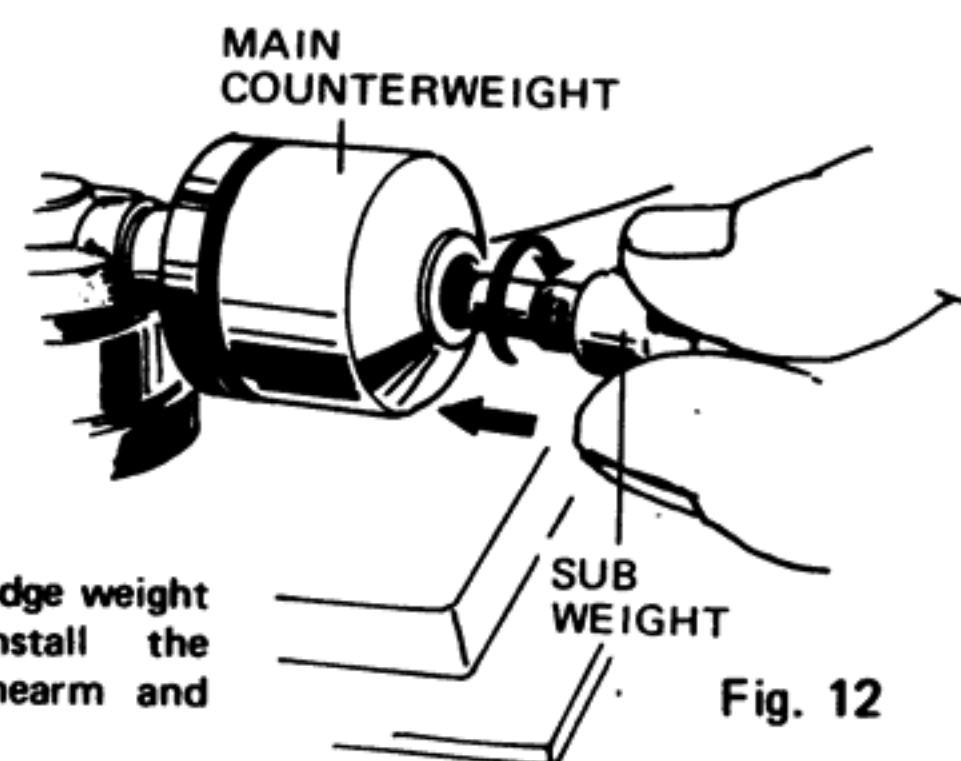


Fig. 12

SKATING FORCE CANCELLING ADJUSTMENT

The tonearm is provided with anti-skating force with the index line on the skating force canceler knob (Fig. 14).

For example, if the tracking force of the cartridge is 2 grams, set the skating canceller knob to 2.

What is "Skating Force Canceler" for?

Many tonearms are provided with the skating force canceler, also called anti-skating force control, inside force canceler, or side-thrust compensator. To understand its function, you must know that the force, as a disc record rotates, acts upon stylus and tonearm as they trace the record.

Among these, the most disturbing is the force which tries to pull the tonearm inward, outward the center of the record, pushing the stylus against the inner wall of the record groove. To assure perfect tracking of both groove walls, this force must be compensated. Usually, a little weight by means of a skating force canceler or the like just described, applies corresponding counter-force. As the skating force varies with the stylus tracking force, the skating force canceler should be re-adjusted each time the tracking force is changed.

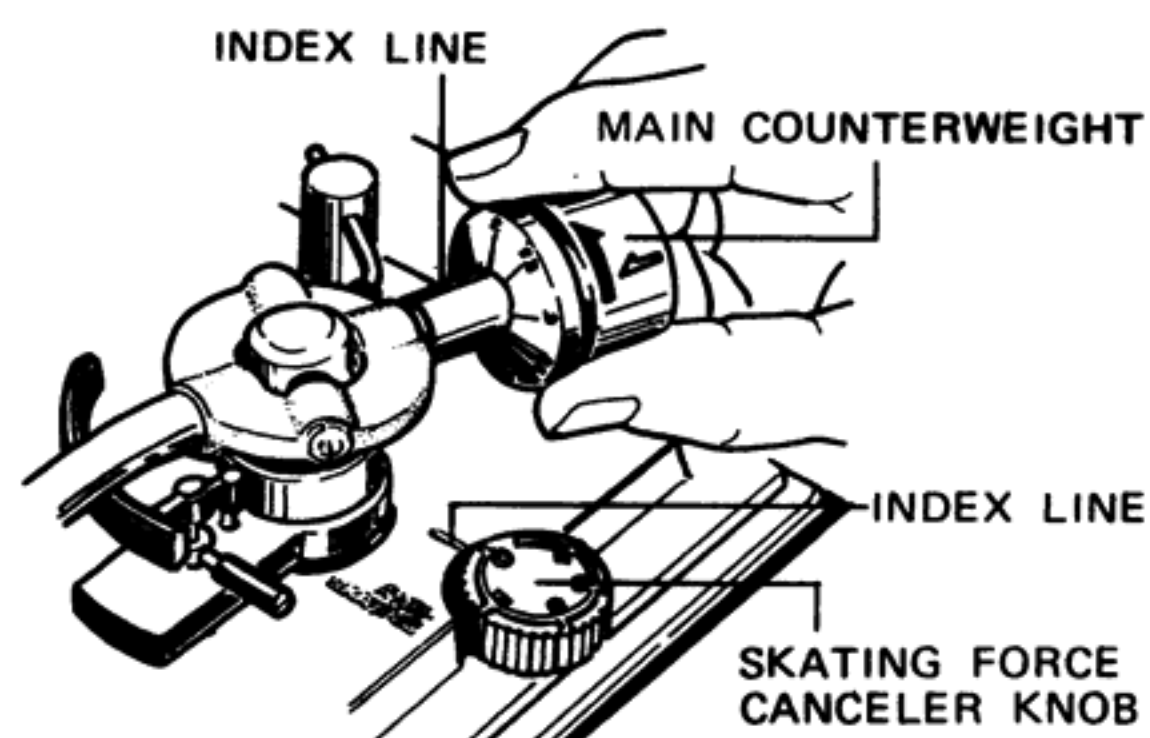


Fig. 13

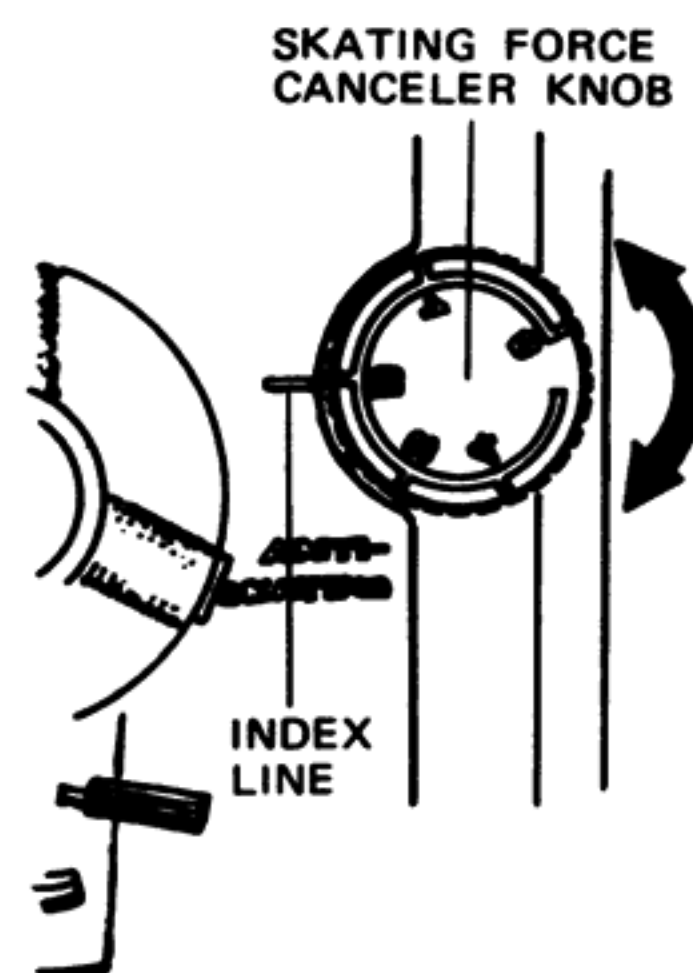
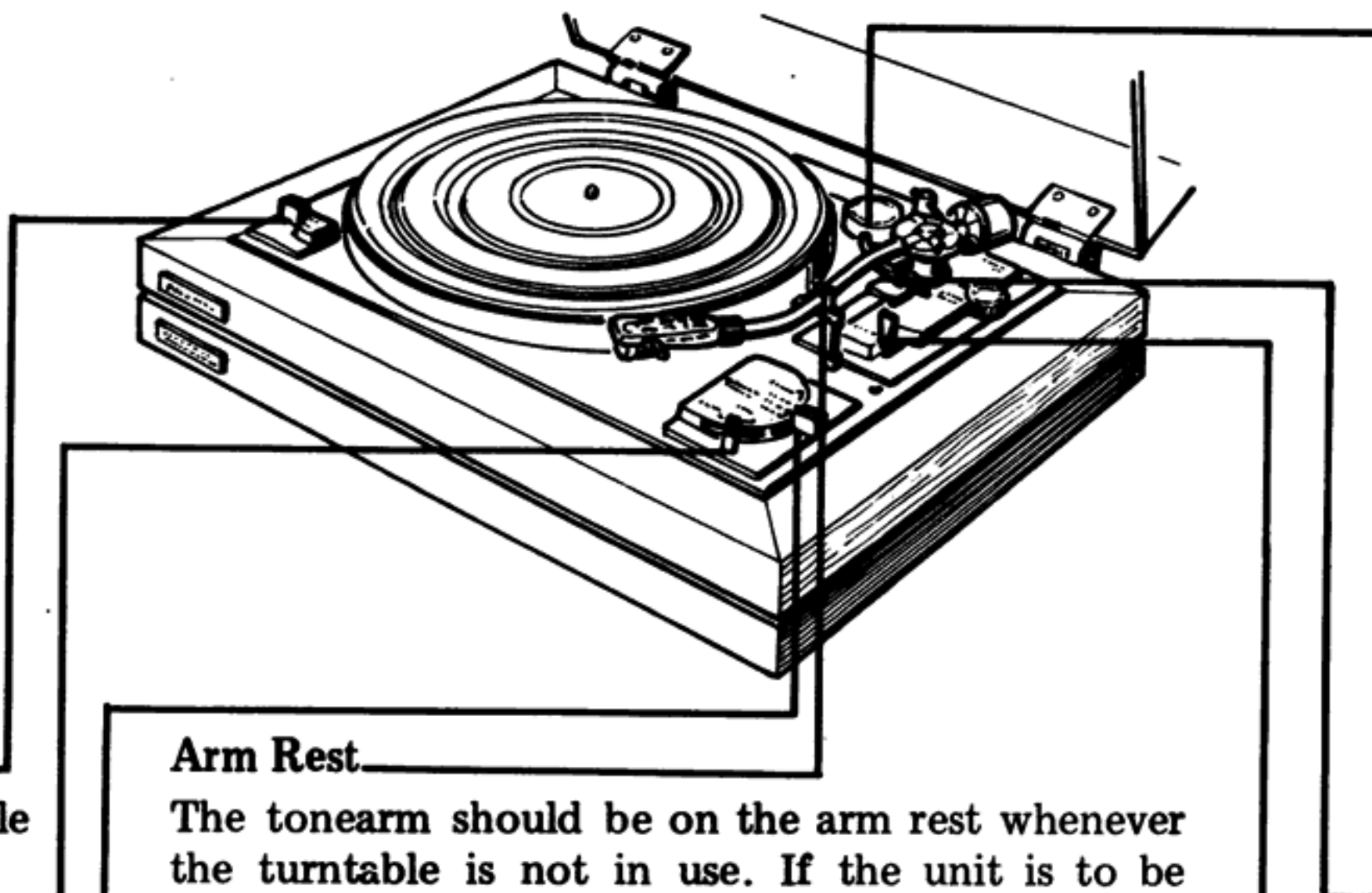


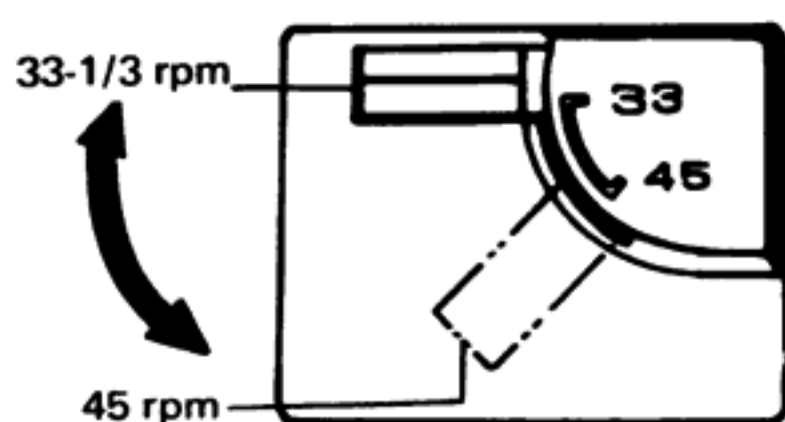
Fig. 14

OPERATION



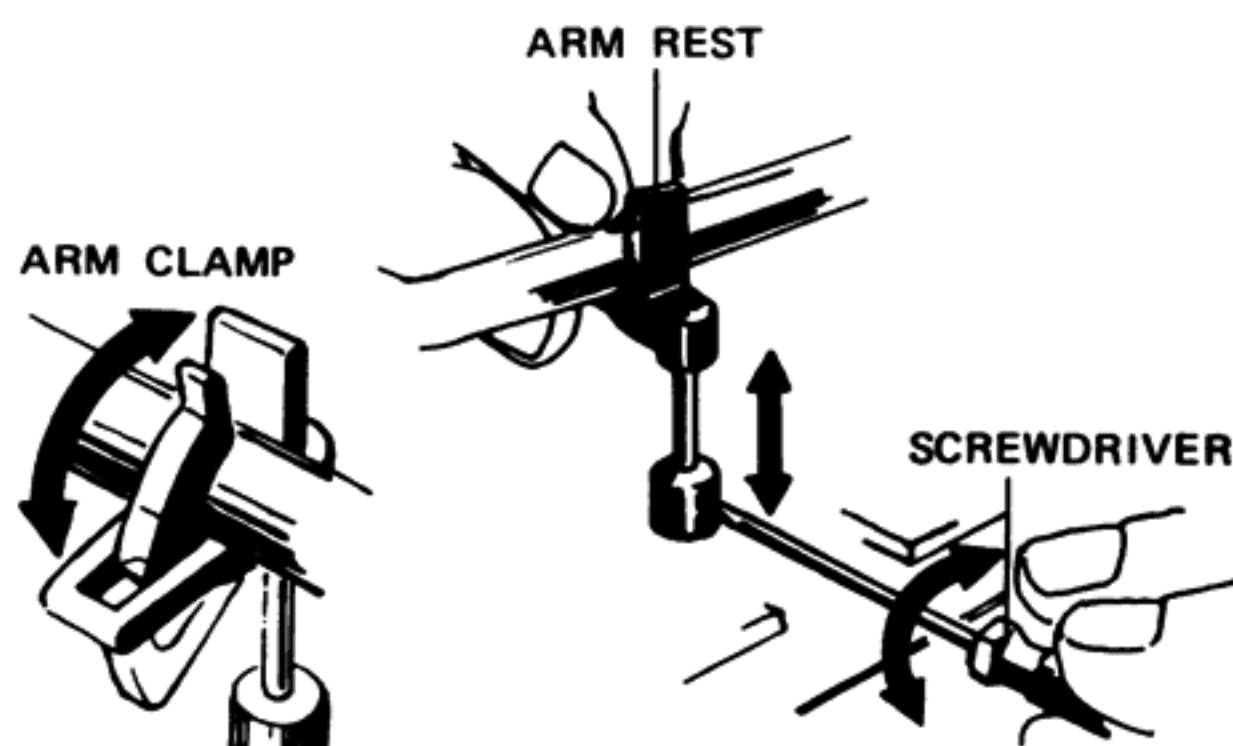
Speed Selector Lever

Speed must be reset only while the turntable platter is rotating.



Arm Rest

The tonearm should be on the arm rest whenever the turntable is not in use. If the unit is to be moved or transported, first secure the tonearm to the arm rest with the built-in clamp which is also provided to adjust the height of the arm rest, using a screwdriver as illustrated here.

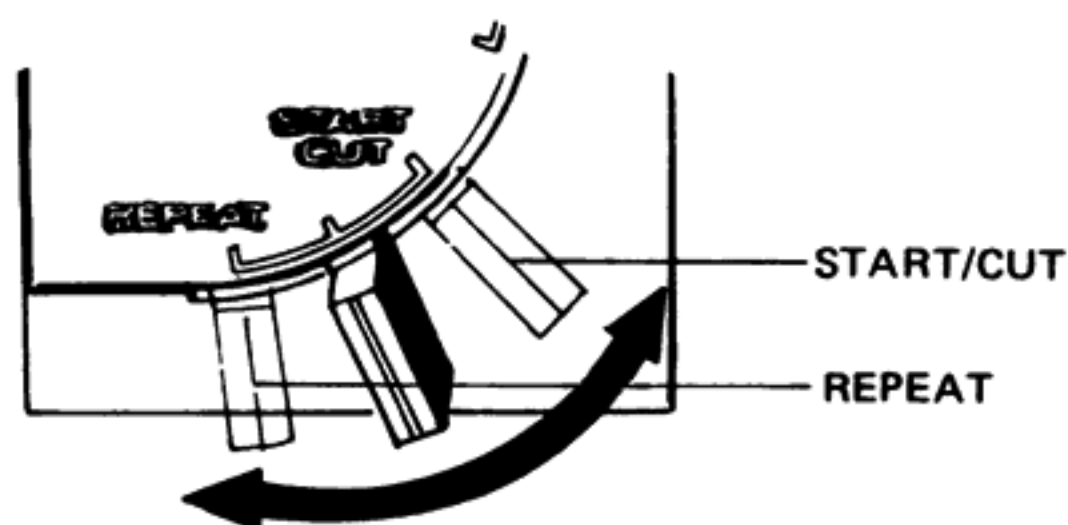


Height-adjustable arm rest: turn screwdriver clockwise and counterclockwise.

Function Lever

START/CUT For starting record play and stopping it midway.

REPEAT For playing the same record repeatedly.



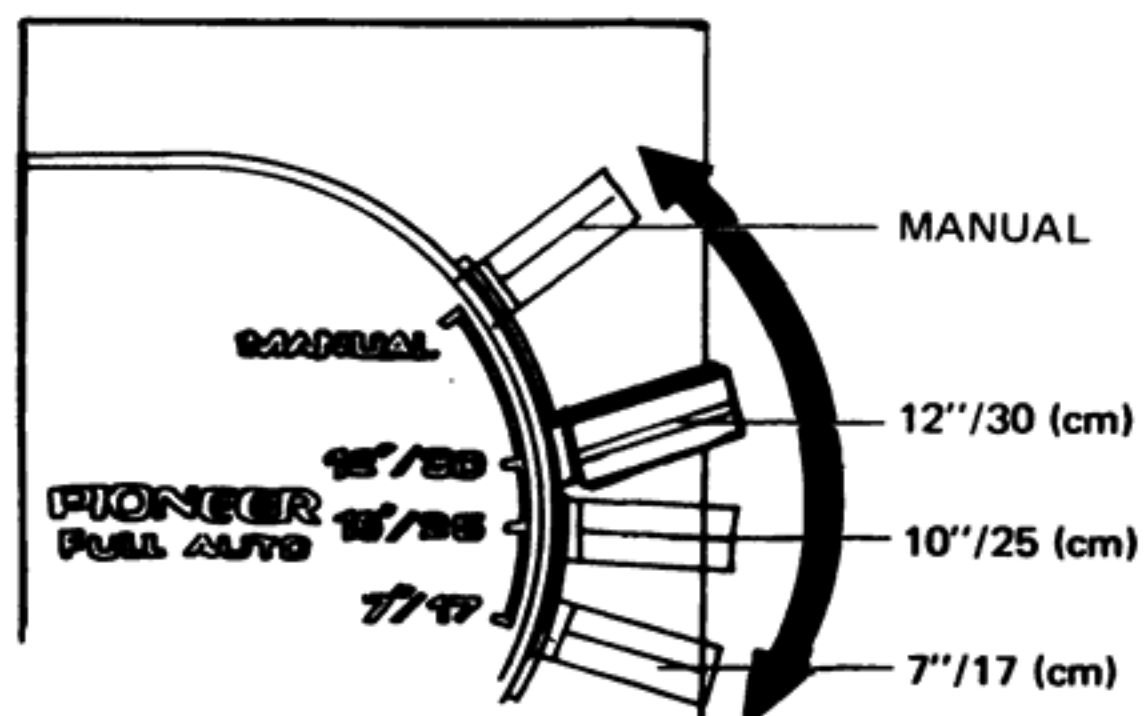
Select Lever

MANUAL For manual operation.

12"/30 For playing 12" (30 cm)

10"/25 For playing 10" (25 cm)

7"/17 For playing 7" (17 cm)



45-rpm Adaptor

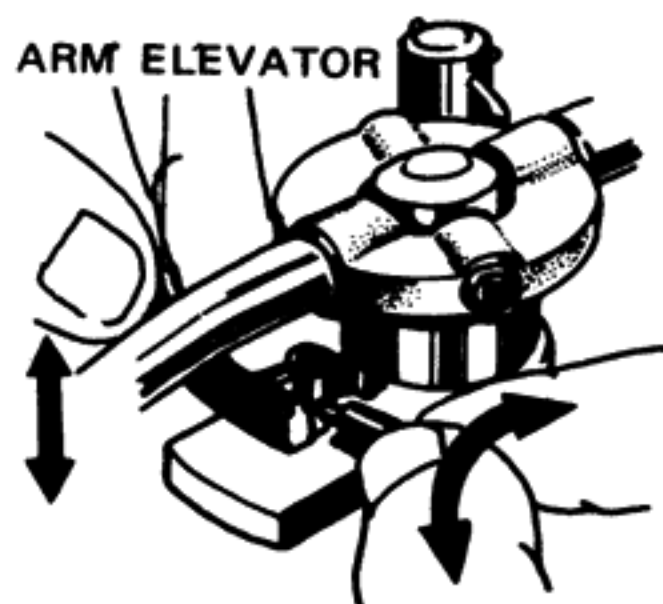
A 45-rpm adaptor is supplied in the accessory group, which permits 45-rpm records to be fitted on the PL-A45D center shaft. When the adaptor is not in use, keep it on the stub located in the upper right of the baseplate.



45-rpm ADAPTOR

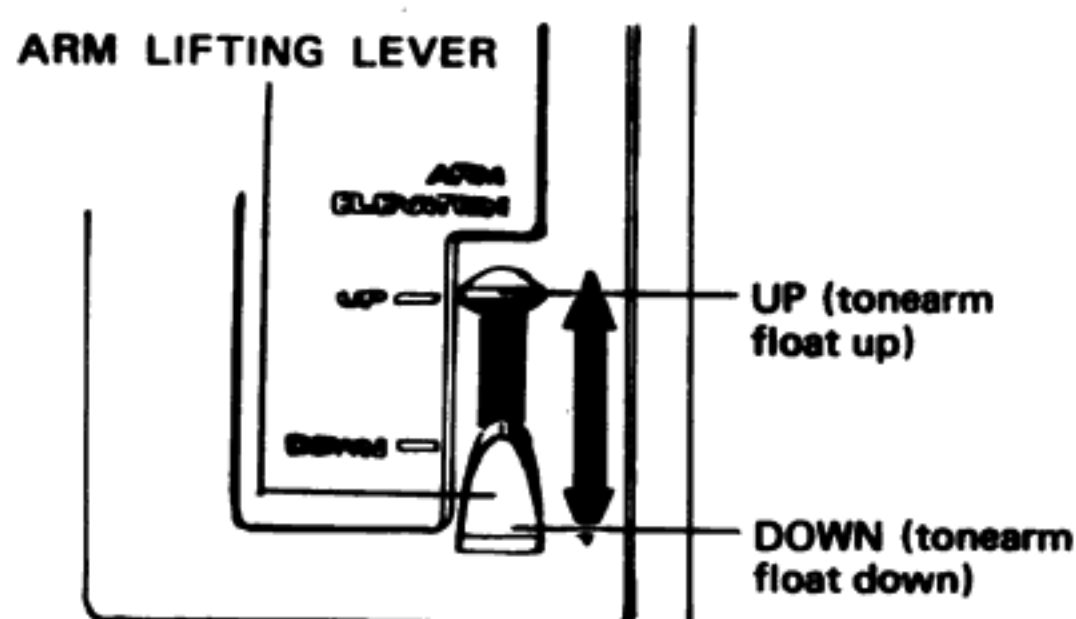
Arm Elevator

The tonearm is raised or lowered by an arm elevator under control of the function lever. The arm elevator, i.e., the stroke for the tonearm to travel upward and downward, can be adjusted by loosening the screw.



Arm Lifting Lever

This lever is used to lift and lower the tonearm. Setting the lever to DOWN will quietly float the arm down, and the lever to UP will float the arm up from the record. Normally, the lever should be set to DOWN.



AUTOMATIC PLAY

1. Make sure that the arm lifting lever is in DOWN.
2. Set the select lever to the size of the record to be played:
12" (30 cm), 10" (25 cm) or 7" (17 cm).
3. Check the position of the speed selector lever. If record speed and speed selector lever do not agree, reset the speed selector lever as follows:
 - (A) Set the selector lever to MANUAL.
 - (B) Set the function lever to START/CUT and immediately release the lever. The turntable will start rotating. Then set the speed selector lever to the correct speed.
 - (C) Move the function lever to START/CUT again. The turntable will stop.
 - (D) Follow step 2 above once again.
4. Free the stylus cover from the stylus.
5. Set the function lever to START/CUT. The turntable will begin rotating, and the tonearm will automatically move up and float down onto the record.
6. At the end of the record, the tonearm will automatically return onto the arm rest to stop the turntable platter.

STARTING THE RECORD MIDWAY OR MANUAL PLAY

1. Set the select lever to MANUAL, the arm lifting lever to DOWN.
2. Move the tonearm over the grooves from which you want to play the record.
3. Set the function lever to START/CUT, then release it. The tonearm will float down onto the record gently.
4. When record play ends, the tonearm will automatically return onto the arm rest to stop the turntable platter.

INTERRUPTING RECORD PLAY

To interrupt record play, move the function lever to START/CUT and release the lever.

The tonearm will return on the arm rest to stop the turntable platter.

REPEATING RECORD PLAY

Once the function lever has been set to REPEAT, the same record can be played over and over again until the lever is released.

OPERATING CONSIDERATIONS

CORRECT HANDLING OF FUNCTION LEVER

Always move function lever quickly and release it immediately. Do not touch the tonearm by hand while in motion.

ALWAYS KEEP THE STYLUS CLEAN

Dust on the stylus deteriorates the sound quality. Clean the stylus frequently with a soft brush. Care must be taken not to touch it with your fingers. Also, the records must be kept clean.

CHANGE TURNTABLE SPEED ONLY WHEN TURNTABLE IS ROTATING

In the belt drive system, the turntable speed is changed by shifting the belt up or down on the

stepped motor pulley by the speed selector lever. The speed must be changed only while the turntable is rotating.

NEVER OBSTRUCT THE ROTATING TURNTABLE BY HAND

Stopping the rotating turntable by hand may cause the belt to move off the pulley and can lead to stretching the belt.

AVOID SHOCKS AND VIBRATION

Model PL-A45D operates with a very small stylus tracking force. It should be in a stable position. Also, keep the unit as far apart from the loudspeakers as possible.

LUBRICATION

Before applying oil to the turntable, remove the turntable platter by using the following procedure:

1. Return the tonearm onto the arm rest, then protect the stylus tip with the stylus guard.
2. Remove the drive belt with fingers from the motor pulley.
3. Pull the turntable platter straight up with two fingers inserted into the turntable platter's two openings (Fig. 15).

If the turntable platter should not be removed easily, pull it up with stronger force, with care taken not to damage any part of the turntable.

WHEN LUBRICATING IS REQUIRED ...

Mechanical noises and wow and flutter usually result from the lack of lubricant in rotating parts. Lubricate the specified spots at least once every two months if your turntable is used for home entertainment, and two to three in a month if used for professional purposes. Apply one or two drops to the base of the center shaft (Fig. 16). When lubricating, be careful not to let oil adhere to such parts as the motor pulley, belt, or inner rim. If oil should adhere to these parts, wipe it off with a cloth moistened with pure alcohol.

WHEN LUBRICATION IS OVER ...

Replace the turntable platter on the center shaft, then re-set the drive belt around the motor pulley.



REMOVE THE TURNTABLE PLATTER

Fig. 15

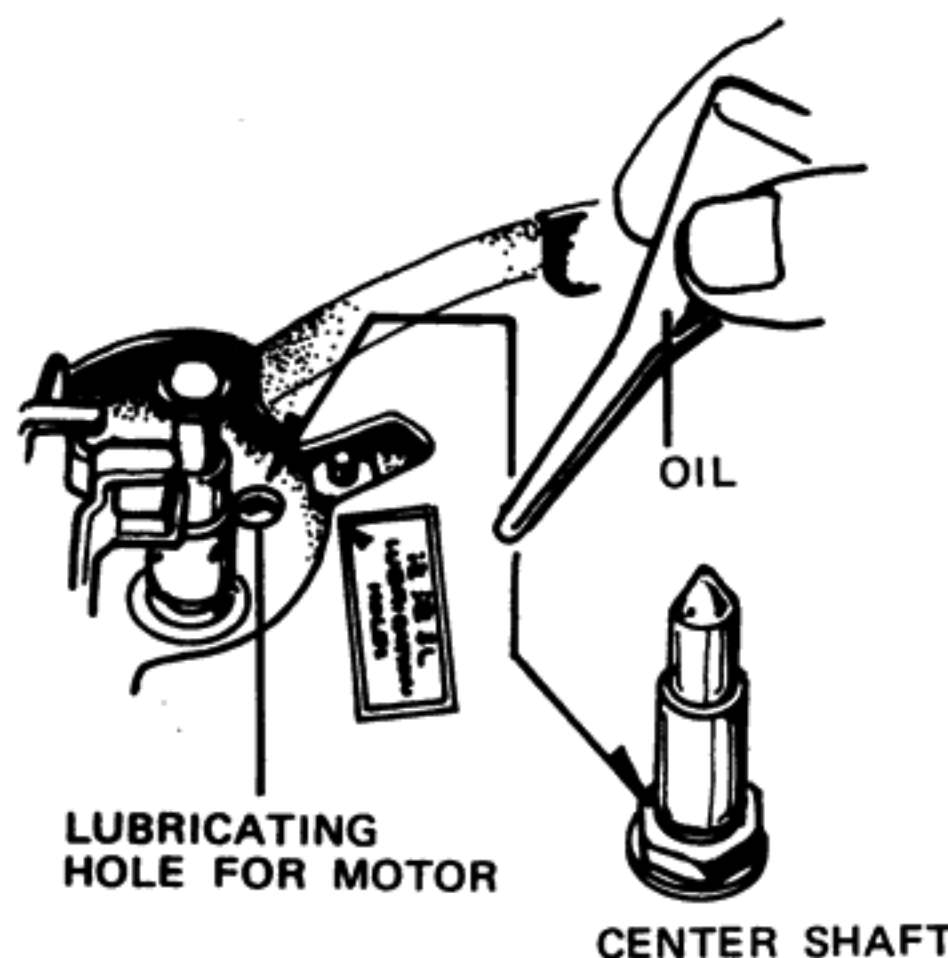


Fig. 16

STYLUS DROP POINT ADJUSTMENT

It is not usually necessary to readjust the stylus drop point. If necessary, remove the rubber bush and with the tonearm resting onto the arm rest, set the select lever to 12", 10" or 7" position and adjust the adjusting screw with a screwdriver.

If the stylus touches down too far out, turn the screw clockwise: and if the stylus touches too far in, turn the screw counterclockwise (Fig. 17).

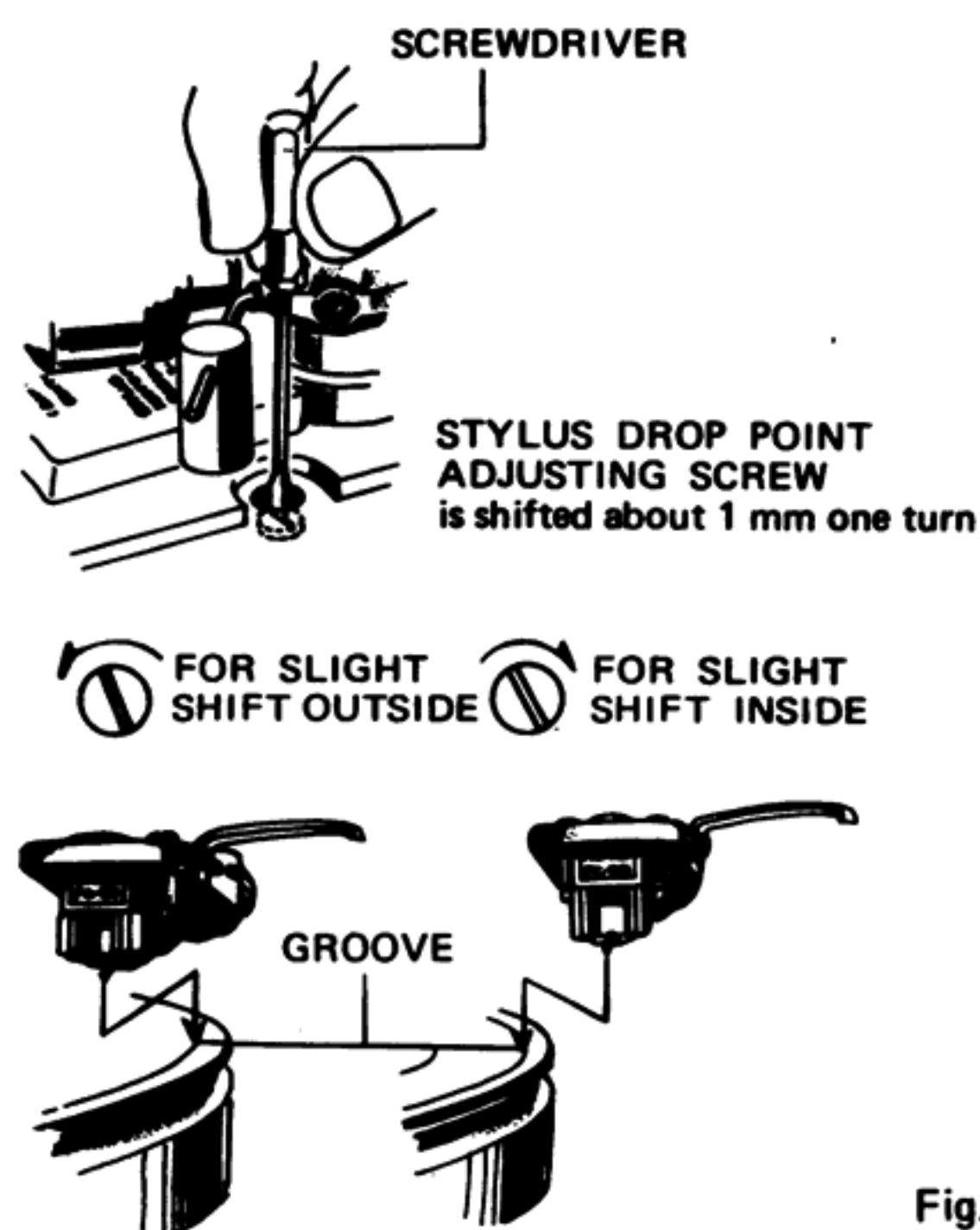


Fig. 17

DUST COVER

Attach the plastic dust cover by sliding the cutouts in the fasteners (on the cover) over the hinge pegs (on the base) as shown in Fig. 18.

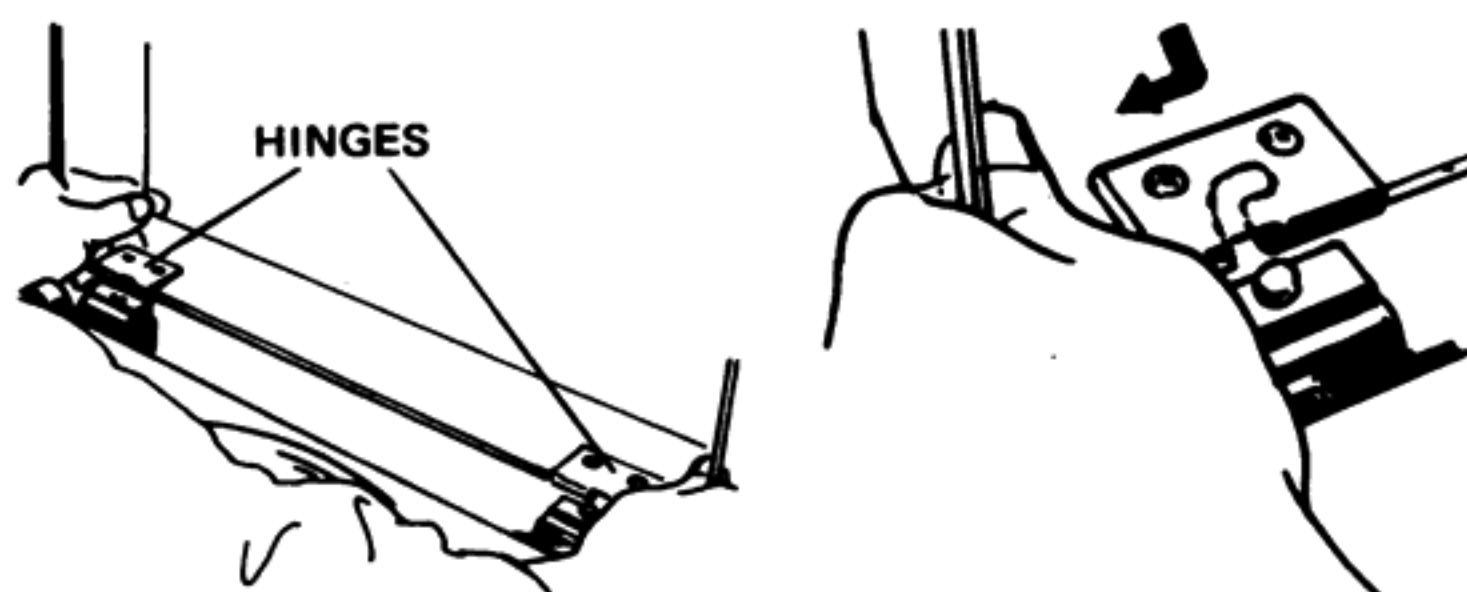


Fig. 18

TROUBLESHOOTING

WOW AND FLUTTER

Wow and flutter usually result from oil on the motor pulley or belt.

Check the surfaces of the motor pulley and belt, and wipe them clean with a soft cloth dampened with alcohol.

Caution: Never use other solvents.

HOWLING

"Howling," high-pitched audio tone, is acoustical feedback from speakers to the turntable unit. Increasing the distance between the speakers and the turntable, or even better, laying a soft cushion beneath the turntable will eliminate howling.

HUM

"Hum" is a low-pitched proning noise, often 60 or 50 Hz, resulting from a loose connection of the ground lead. If hum occurs:

- Check the connection of the PL-A45D ground lead (the black lead with a split lug) to your amplifier. If it is loose, connect it firmly.
- Check if the output lead of the PL-A45D is running near the power transformer of your amplifier. Changing the position of the PL-A45D in relation to the amplifier will often eliminate hum.

SPECIFICATIONS

Motor and Turntable

Motor:	4-pole synchronous motor
Turntable drive:	Belt-driven
Speed:	Two speeds, 33-1/3 rpm and 45 rpm
Speed accuracy:	1.0% or less
Wow and flutter:	0.1% (WRMS) or less
S/N:	47dB or more (in case of using Pioneer cartridge model PC-30)
Turntable platter:	30cm (12 in) diameter aluminum alloy

Tonearm

Tonearm type:	Static balance type, pipe arm (S-shaped)
Effective arm length:	221 mm

Miscellaneous

Power requirements:	AC120V 60Hz
Power consumption:	19W (MAX.)
Dimensions:	480(W)x172(H)x415(D)mm 18-7/8(W)x6-25/32(H)x16-3/8(D)in.
Weight:	11kg (25 lb)

Subfunctions

Skating force canceler device
 Fully automatic tonearm
 Light aluminum alloy head shell plug-in type
 Dust cover with free stop hinges
 Lateral balance control
 Viscous-damped arm elevation

Accessories

Lubricator	1
Screwdrivers	2
Sub weight	1
45-RPM adaptor	1
Rubber bush	1
Overhang Gauge	1
Cartridge mounting screws	10
Cartridge mounting nuts	2
Cartridge mounting washers	2
Operating instructions	1

NOTE:

Specifications and the design subject to possible modification without notice due to improvements.

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